

DOCKET NO.: RTS-0169

"Express Mail" Label No.: EL263653993US  
Date of Deposit: 9-29-00

#5  
PP  
1-3-02  
Attachment  
Jc929 U.S. PTO  
09/676436  
09/29/00

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Donna T. Ward et al.

Serial No.: Not yet assigned      Group No.: Not yet assigned

Filed: herewith

For: **Antisense Modulation of MEKK4 Expression**

BOX SEQUENCE

Assistant Commissioner for Patents  
Washington DC 20231

INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 C.F.R. §1.56 and in accordance with 37 C.F.R. §§1.97-1.98, information relating to the above-identified application is hereby disclosed. Inclusion of information in this statement is not to be construed as an admission that this information is material as that term is defined in 37 C.F.R. §1.56(b).

In accordance with §1.97(b), since this Information Disclosure Statement is being filed either within three months of the filing date of the above identified application, within three months of the date of entry into the national stage of the above identified application as set forth in §1.491, or before the mailing date of a first Office Action on the merits of the above identified application, no additional fee is required.

Copies of each of the references listed on the attached Form PTO-1449 are enclosed.

Date: Sept 29, 2000

Respectfully submitted,

Laurel Spear Bernstein  
Laurel Spear Bernstein  
Registration No. 37,280

ISIS PHARMACEUTICALS, INC.  
Carlsbad Research Center  
2292 Faraday Avenue  
Carlsbad, CA 92008

Form PTO-1449 Modified	Docket No. RTS-0169	Serial No. 09/676,436
List of Patents and Publications Cited by Application (Use several sheets if necessary)	Applicant Donna T. Ward et al.	
U.S. Department of Commerce Patent and Trademark Office	Filing Date	Group 1635

**U.S. PATENT DOCUMENTS**

Examiner's Initial		Document No.	Date	Name	Class	Subclass
KAL	AA	5,910,417	06/08/1999	Gelfand et al.	<del>435</del>	<del>7.2</del>
KAL	AB	5,854,043	12/29/98	Johnson	<del>435</del>	<del>194</del>
KAL	AC	5,981,265	11/09/1999	Johnson	<del>435</del>	<del>254.1</del>
	AD					
	AE					
	AF					
	AG					
	AH					
	AI					
	AJ					
	AK					
	AL					
	AM					
	AN					

**FOREIGN PATENT DOCUMENTS**

Examiner's Initial		Document No.	Date	Country	Translation YES NO	
KAL	AO	WO 98/54203	12/03/1998	PCT	X	
	AP					
	AQ					
	AR					
	AS					
	AT					
	AU					
	AV					
	AW					
	AX					

EXAMINER <i>Loren A. Jaconiere</i>	DATE CONSIDERED 05-28-07
------------------------------------	--------------------------

FILE COPY

Form PTO-1449 Modified		Docket No. RTS-0169	Serial No. not yet assigned
List of Patents and Publications Cited by Application (Use several sheets if necessary)		Applicant Donna T. Ward et al.	
		Filing Date herewith	Group 1635
U.S. Department of Commerce Patent and Trademark Office			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
KAL	AA	Gerwins et al., Cloning of a novel mitogen-activated protein kinase kinase kinase, MEKK4, that selectively regulates the c-Jun amino terminal kinase pathway, J. Biol. Chem., 1997, 272:8288-8295	
KAL	AB	Moriguchi et al., Roles of the MAP kinase cascade in vertebrates, Adv. Pharmacol., 1996, 36:121-137	
KAL	AC	Takekawa et al., A human homolog of the yeast Ssk2/Ssk22 MAP kinase kinase kinases, MTK1, mediates stress-induced activation of the p38 and JNK pathways, Embo J., 1997, 16:4973-4982	
KAL	AD	Widmann et al., Mitogen-activated protein kinase: conservation of a three-kinase module from yeast to human, Physiol. Rev., 1999, 79:143-180	
EXAMINER		DATE CONSIDERED	
Karen A. Jaconiere		05-28-07	

10929 U.S. PTO  
09/676436

09/29/00